

FTU=s, T=3*FTU, B=2, S=12, FTU=120 Picosecond Modulation Example

<u># edges</u>	<u>Symbols</u>	<u># of t's</u>	<u># of p's</u>	<u># p states</u>	<u>total states</u>	<u>Comments</u>
0-edge	θ	θ	θ	θ	1	Don't use this state
1 edge	P P P P P P P P P P P P	1	9	10	10	20
2 edge	P P P P P P P P P P P P	2	6	6	6	28
2 edge	S S S S S S S S S S S S	2	5	5	5	24
2 edge	S S S S S S P P P P P P	2	4	4	4	20
2 edge	S S S S S S P P P P P P	2	3	3	3	16
2 edge	S S S S S S P P P P P P	2	2	2	2	12
2 edge	S S S S S S P P P P P P	2	1	1	2	8
2 edge	S S S S S S P P P P P P	2	0	0	0	4
3 edge	S S S S S S S S S S S S	3	3	3	3	32
3 edge	S S S S S S S P P P P P	3	2	2	3	24
3 edge	S S S S S S S P P P P P	3	1	1	2	16
3 edge	S S S S S S S P P P P P	3	0	0	0	8
3 edge	S S S S S S S P P P P P	3	2	3	3	24
3 edge	S S S S S S S P P P P P	3	1	1	2	16
3 edge	S S S S S S S P P P P P	3	0	0	0	8
3 edge	S S S S S S S P P P P P	3	1	1	2	16
3 edge	S S S S S S S P P P P P	3	0	0	0	8
3 edge	S S S S S S S P P P P P	3	1	1	2	16
3 edge	S S S S S S S P P P P P	3	0	0	0	8
4 edge	S S S S S S S S S S S S	4	0	0	0	16 "Binary"

Total p states	59	1 Edge P States	12
Total States	308	2 Edge P States	6.94E+08
Total mod	8.266786541	3 Edge P States	5.56E+09
Total trunc mod	8	4 Edge P States	1.33

Payload Ratio
Payload Ratio versus "binary"

FIG. 1

FTU=s, T1=4* FTU, T2=5* FTU, B1=2, B2=2, S=16, FTU=120 Picosecond Modulation Example

FIG. 2 ^{total}
p1
#of
t1's 2's
#p1's states
p2
#of
t1's 2's
#p2's states
p total
#p states B1 B2 states

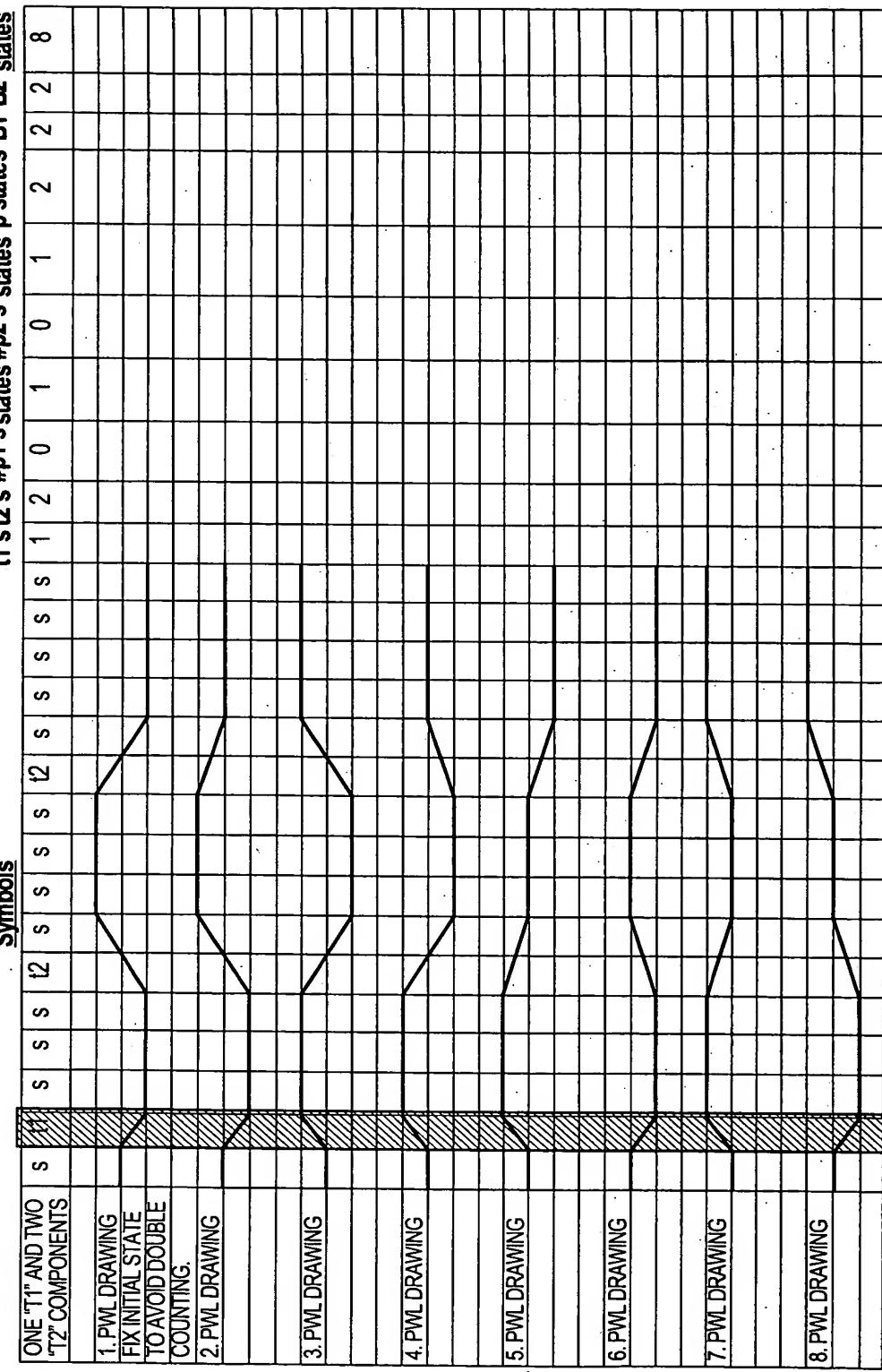


FIG. 3

FTU=S, T1=4* FTU, T2=5* FTU, B1=2, B2=2, S=16, FTU=120 Picossecond Modulation Example

FIG. 3 (cont.)

FIG. 3 (cont.)

24	16	8	16	8	8	32	24	16	8	24	16	8	16	8	8	32	24	16	8	24	16	8	16	8	8
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4	3	2	3	2	2	5	4	3	2	4	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	2	1	2	1	1	4	3	2	1	3	2	1	2	1	1	1	1	1	1	1	1	1	1	1	1
2	1	0	1	0	0	3	2	1	0	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
P1	P1	S	P1	S	S	P1	P1	S	P1	P1	S	P1	P1	S	S	P1	S	S	P1	S	S	S	S	S	
P1	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
S	H	S	H	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
T2	T1	T1	T2	T1																					

FIG. 3 (cont.)

Total p states	401
Total States	1678
Total mod	1.0712527000439800E+01
Total trunc mod	10
columns	16
frequency	5.21E+08
Payload	5.58E+09
Payload Ratio	1.34
Payload Ratio (Truncate)	1.2844987615765900E+00

FIG. 3 (cont.)

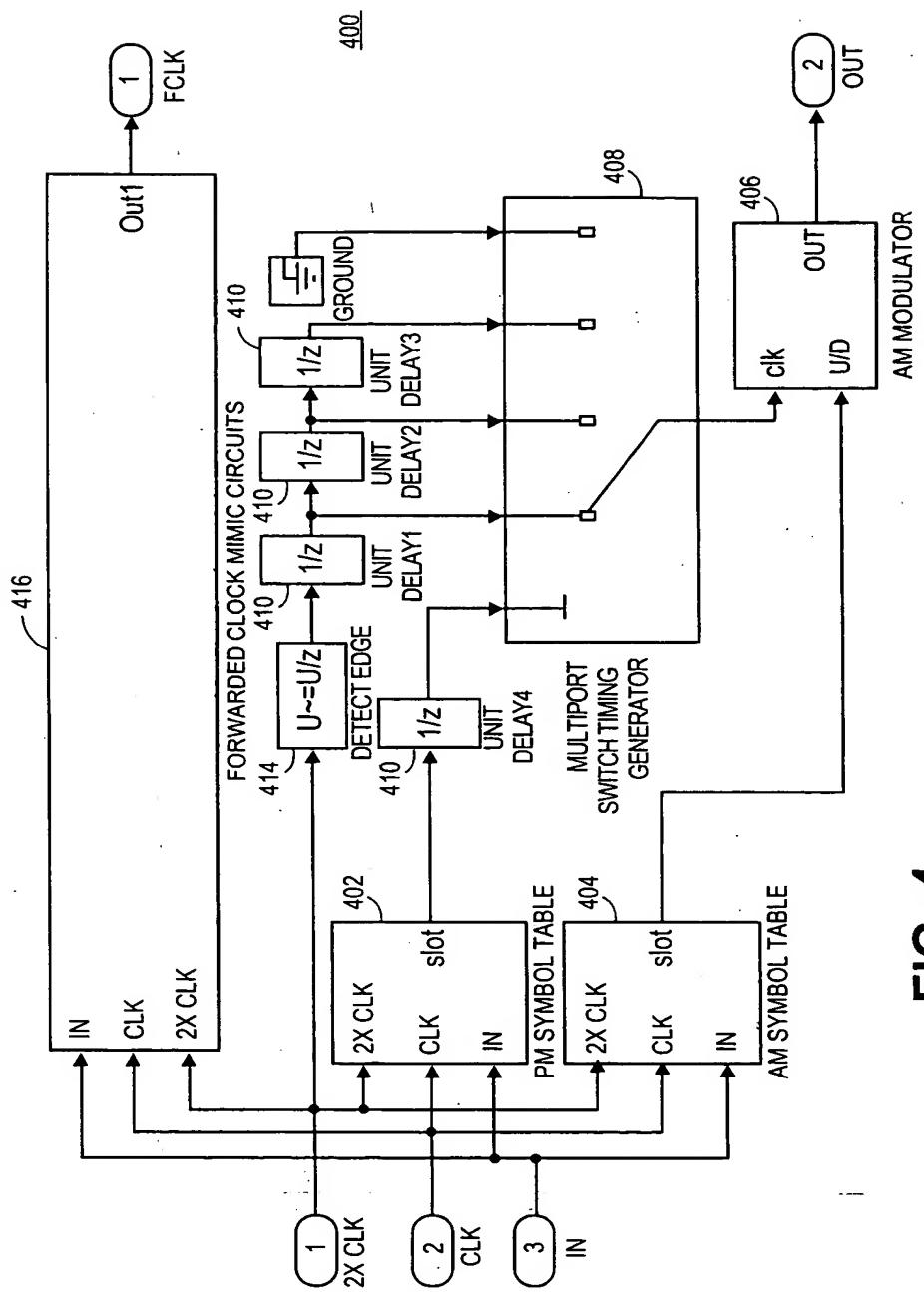


FIG. 4

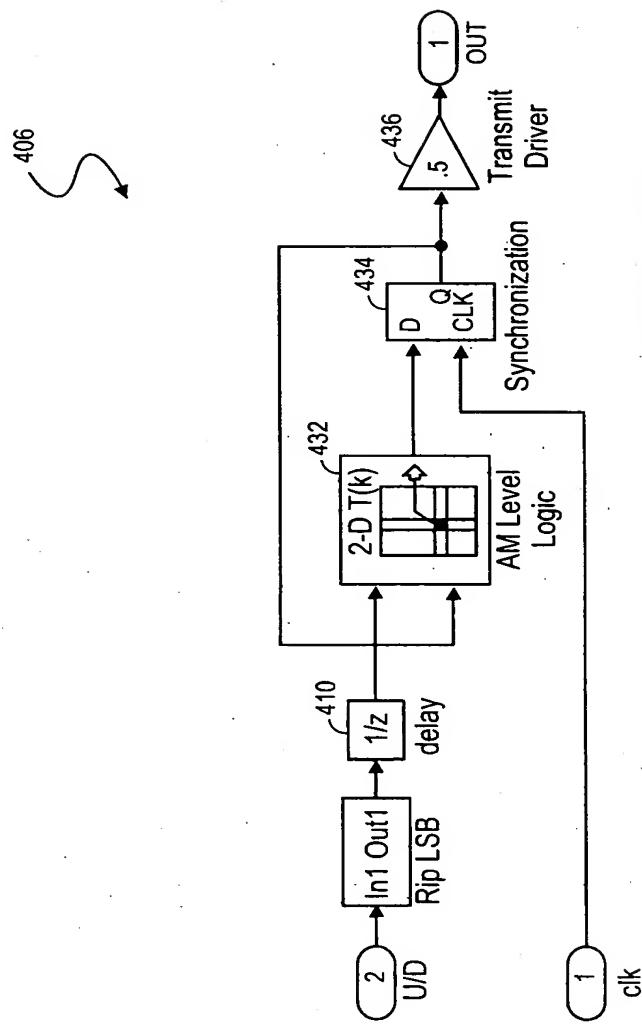


FIG. 4A

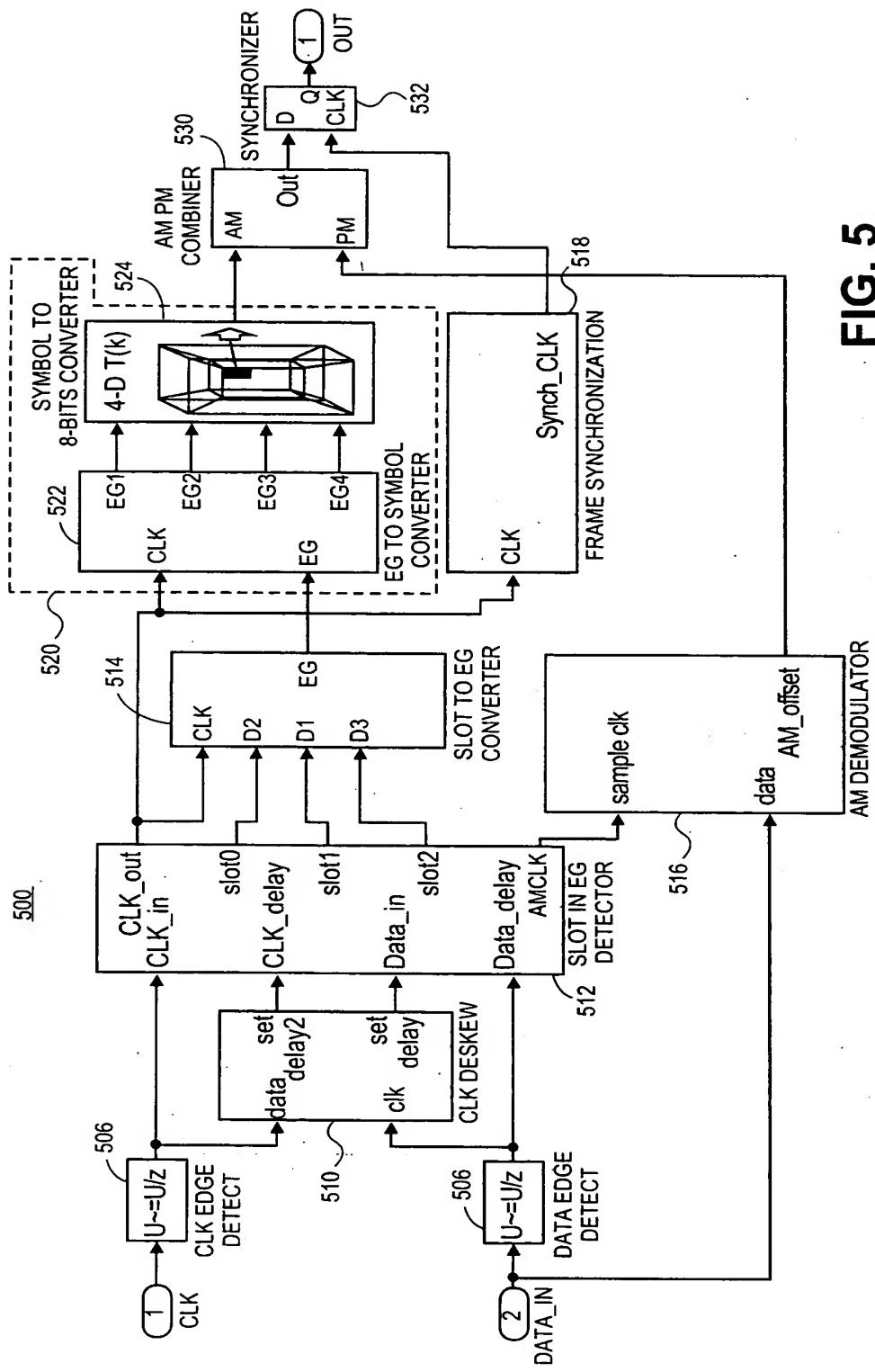


FIG. 5

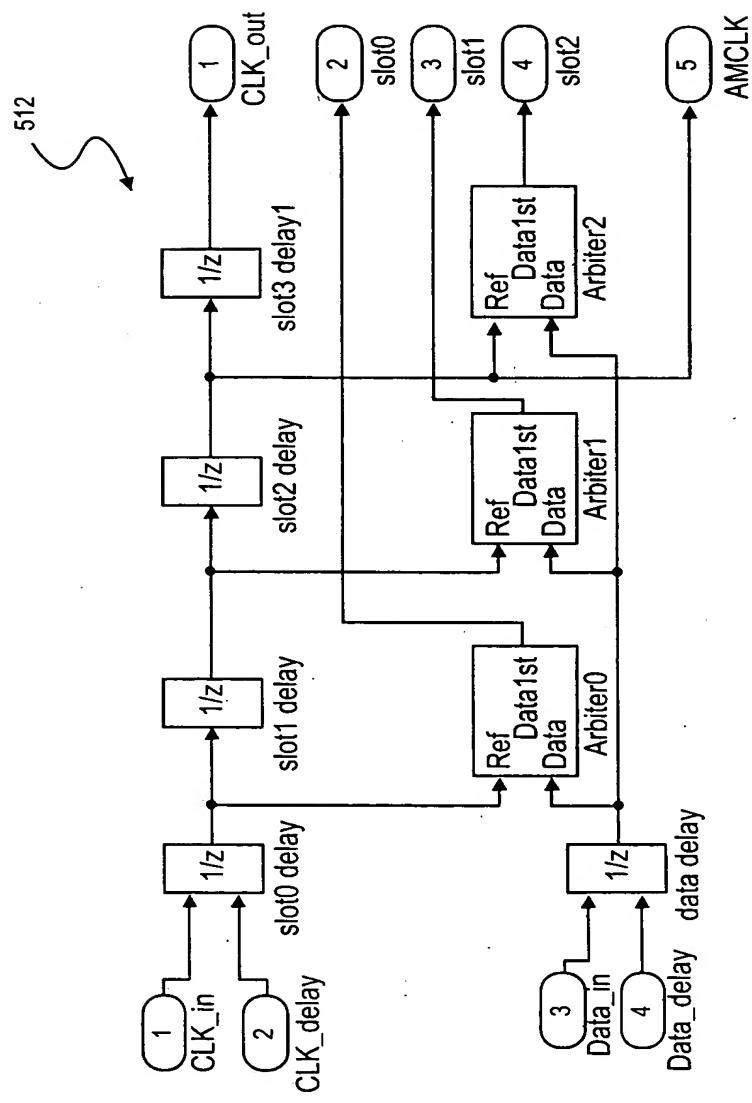
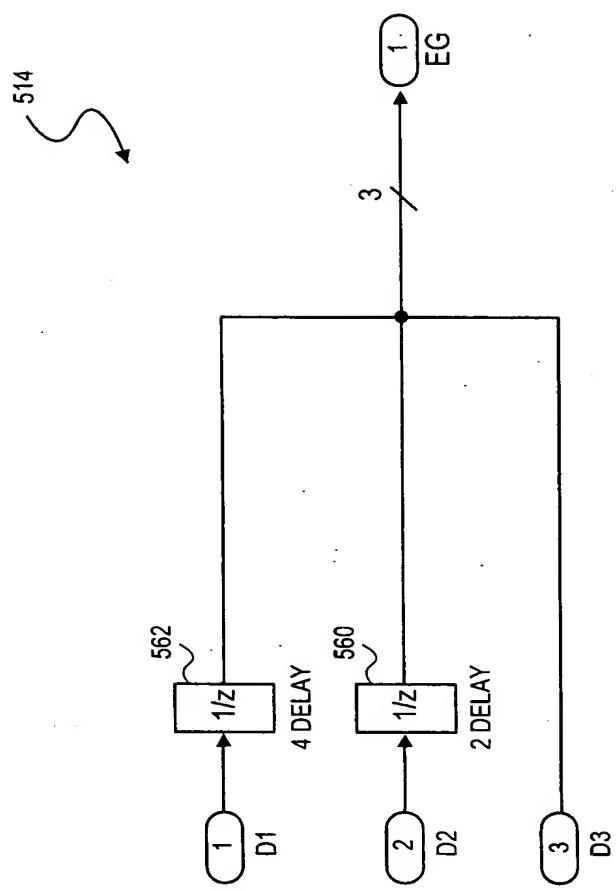


FIG. 5A

FIG. 5B



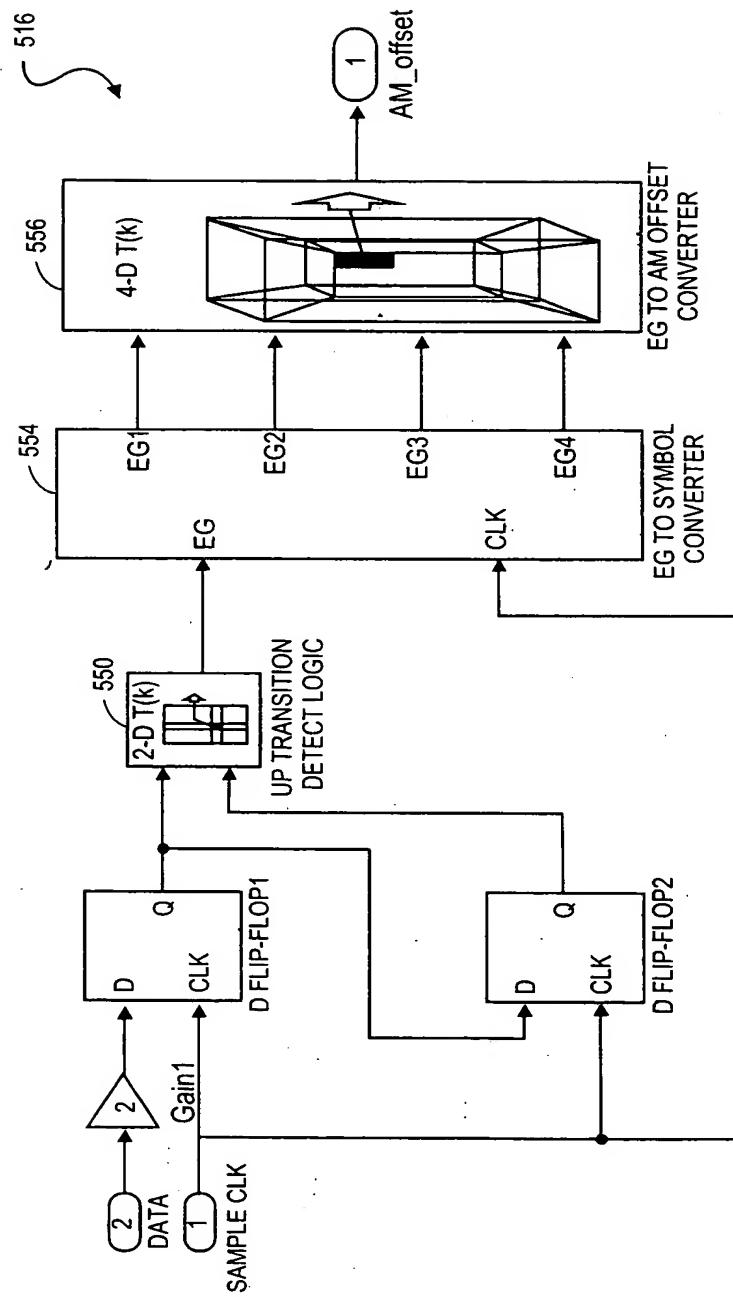
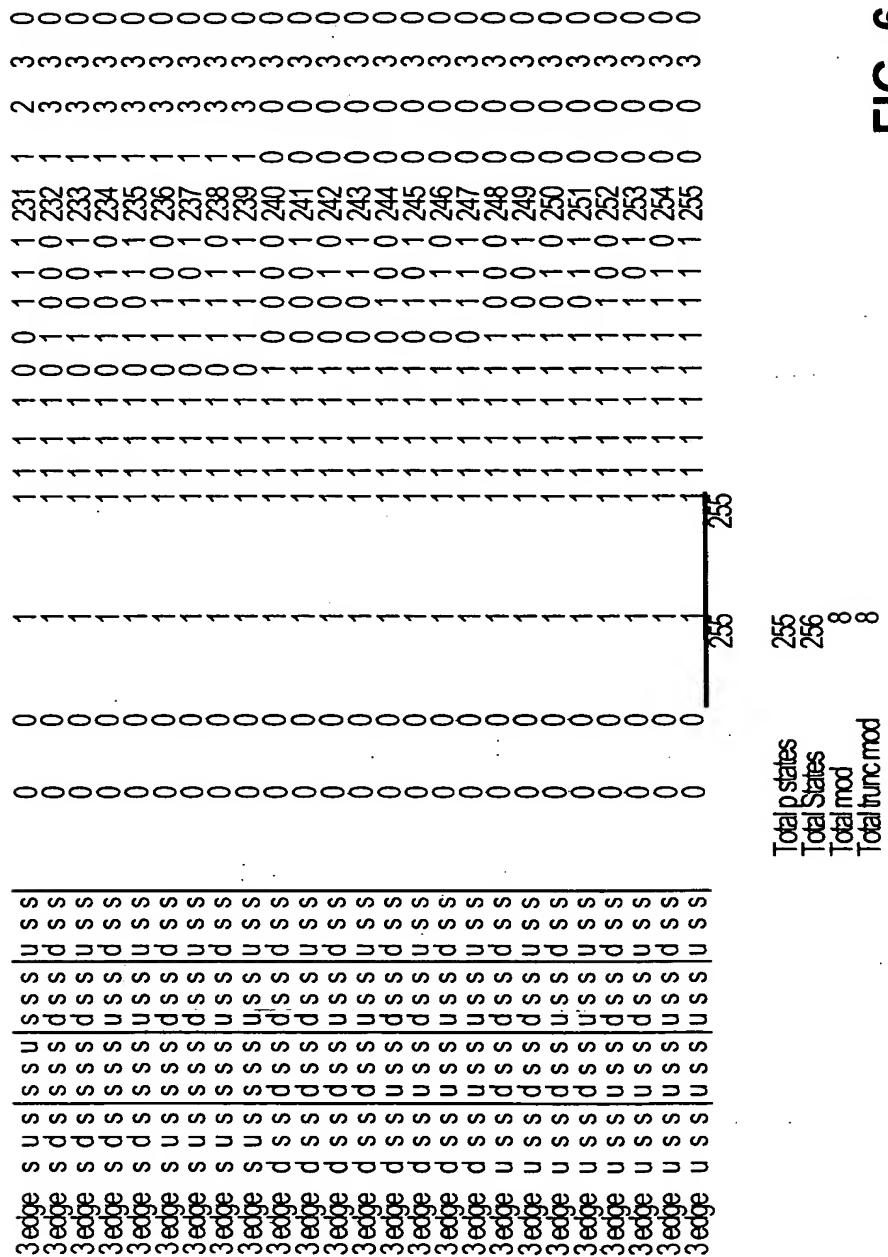


FIG. 5C

FTU=5,T=3* FTU,B=2,S=12,FTU=120 Picosecond Modulation Example

FIG. 6

FIG. 6 (cont.)



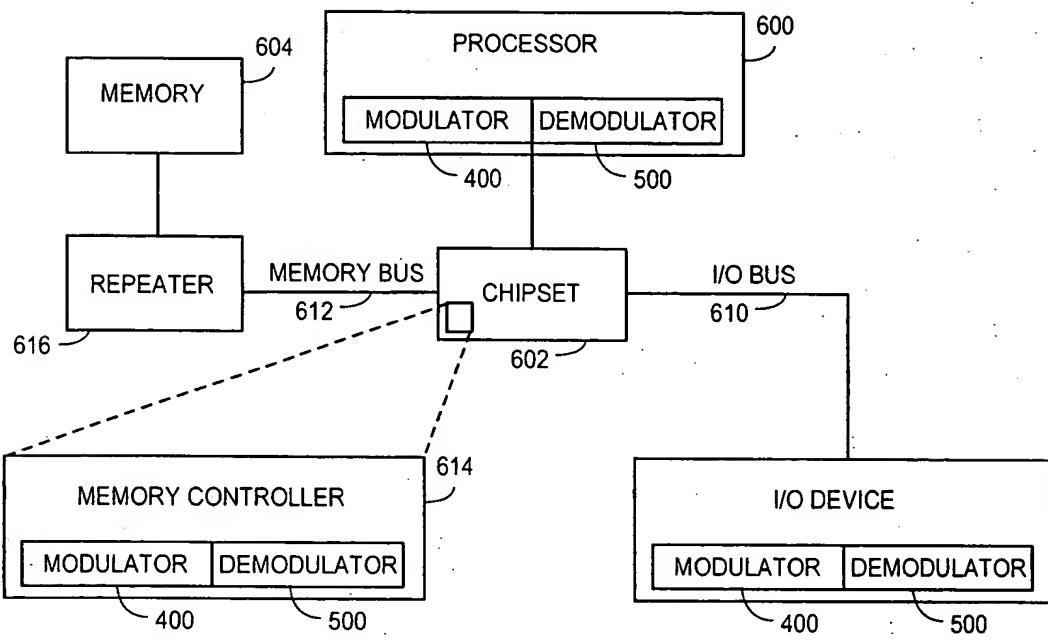


FIG. 7